

Title (en)

AIR CLEANER

Title (de)

LUFTREINIGER

Title (fr)

ÉPURATEUR D'AIR

Publication

EP 4306859 A1 20240117 (EN)

Application

EP 23185155 A 20230713

Priority

KR 20220087012 A 20220714

Abstract (en)

An air cleaner includes: a first body having an inlet and an outlet that is open at top; a filter disposed inside the first body and facing the inlet; a blower fan disposed between the inlet and the outlet, inside the first body, to generate an air flow from the inlet to the outlet; a blower motor disposed inside the first body and configured to rotate the blower fan; and a second body spaced upward from the outlet and disposed over the first body, wherein the first body includes an outlet grille that is disposed on the outlet and has a plurality of vanes extending from an upper end of a circumferential wall of the first body toward a central portion of the first body, and the outlet grille is inclined upward toward the central portion of the first body from the circumferential wall of the first body.

IPC 8 full level

F24F 8/80 (2021.01); **F24F 13/08** (2006.01); **F24F 13/20** (2006.01)

CPC (source: CN EP KR US)

A47B 37/00 (2013.01 - KR); **B01D 46/0049** (2013.01 - US); **B01D 46/2403** (2013.01 - US); **B01D 46/2411** (2013.01 - CN); **F24F 1/0328** (2019.02 - US); **F24F 8/10** (2021.01 - US); **F24F 8/108** (2021.01 - CN); **F24F 8/80** (2021.01 - EP KR); **F24F 13/00** (2013.01 - CN); **F24F 13/06** (2013.01 - CN); **F24F 13/075** (2013.01 - US); **F24F 13/082** (2013.01 - EP KR); **F24F 13/20** (2013.01 - EP KR); **F24F 13/28** (2013.01 - KR); **B01D 2273/30** (2013.01 - US); **F24F 2013/205** (2013.01 - KR); **F24F 2221/28** (2013.01 - KR); **H02J 50/10** (2016.02 - US)

Citation (applicant)

- KR 20210140930 A 20211123
- KR 20220007363 A 20220118 - LG ELECTRONICS INC [KR]

Citation (search report)

- [X] CN 113623807 A 20211109 - CRAWFORD GLOBAL LTD, et al
- [A] WO 2017074128 A1 20170504 - LG ELECTRONICS INC [KR]
- [A] CN 113465085 B 20211214
- [A] KR 20180065164 A 20180618 - GRAMEDIS [KR]
- [A] KR 20220076876 A 20220608 - WINIA CO LTD [KR]
- [A] EP 3832217 A1 20210609 - LG ELECTRONICS INC [KR]

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC ME MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA

Designated validation state (EPC)

KH MA MD TN

DOCDB simple family (publication)

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DOCDB simple family (application)

EP 23185155 A 20230713; CN 202310849971 A 20230711; KR 20220087012 A 20220714; US 202318221067 A 20230712